

AFCTN Test Report 94-077

AFCTB-ID 94-028



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Sikorsky Aircraft's Data Supporting:



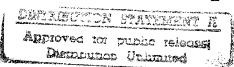
Army Blackhawk Program (Contract #DAAJ09-92-C-0004, P00017)



MIL-STD-1840A MIL-M-28001A (SGML) MII-D-28003 (CGM)

Quick Short Test Report

07 April 1994



19960822 119



Prepared For: Electronic Systems Center Air Force CALS Program Office Det 2 HQ ESC/AV-2 4027 Colonel Glenn Hwy, Suite 300 Dayton, Ohio 45431-1672

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Using:
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MIL-STD-1840A MIL-M-28001A (SGML) MIL-D-28003 (CGM)

Quick Short Test Report 07 April 1994

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Air Force CALS Test Bed

Notification of Test Results

07 April 1994

This notice documents the results of an Air Force CALS Test Bed (AFCTB) Quick Short Test Report (QSTR) evaluation of data submitted by:

Sikorsky Aircraft

Identified as follows:

Title:

Technical Publication Transfer

Program:

Blackhawk U. S. Army

Program Office: Contract No.:

DAAJ09-92-C-0004,P00017

OSTR No.:

AFCTB-ID 94-028

Received on the following media:

9-Track Tape

The results of the QSTR evaluation are as follows:

MIL-STD-1840A Standard

Fail

MIL-STD-1840A Media Format:

Pass

MIL-D-28000A IGES:

N/A

MIL-M-28001A SGML:

Fail

MIL-R-28002A Raster:

N/A

MIL-D-28003 CGM:

Pass

Formal results with associated disclaimer are documented and available from the AFCTB.

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Contents

1.	Intro	uction1				
	1.1.	Background1				
	1.2.	Purpose2				
2.	Test 1	arameters3				
3.	1840A	Analysis6				
	3.1.	External Packaging6				
	3.2.	Transmission Envelope6				
	\	3.2.1. Tape Formats6				
		3.2.2. Declaration and Header Fields				
4.	IGES Analysis7					
5.	SGML Analysis7					
6.	Raster Analysis10					
7.	CGM Analysis10					
8.	Conclusions and Recommendations13					
9.	Append	ix A - Tapetool Report Logs14				
	9.1.	Tape Catalog14				
	9.2.	Tape Evaluation Log15				
	9.3.	Tape File Set Validation Log17				
	9.4.	Other Tape Reading Logs19				
10.	Append	ix B - Detailed SGML Analysis20				
	10.1.	Parser Log20				
		10.1.1. DTD Log File - 1				

		10.1.2.	DTD Log File - 224
		10.1.3.	Text Log File
	10.2.	Exoterica	a XGMLNormalizer Parser29
	10.3.	Sema Mark	c-it Log29
	10.4.	Public Do	omain sgmls Log29
11.	Append	dix C - De	etailed CGM Analysis30
	11.1.	File D001	1C00930
		11.1.1.	Output cgm2draw/IslandDraw30
		11.1.2.	Output Designer31
		11.1.3.	Output Freelance32
		11.1.4.	Output HiJaak Pro33
		11.1.5.	Output Ventura Publisher34
	11.2.	File D00	1C01835
		11.2.1.	Parser Log MetaCheck35
		11.2.2.	validcgm Log37
		11.2.3.	Output CADLeaf38
		11.2.4.	Output CALSView39
		11.2.5.	Output cgm2draw/IslandDraw40
		11.2.6.	Output Designer41
		11.2.7.	Output Freelance42
		11.2.8.	Output Harvard Graphics43
		11.2.9.	Output HiJaak Pro44
		11.2.10.	Output IslandDraw v4.045
		11.2.11.	Output Ventura Publisher46

	11.2.12.	Output	XChange47
11.3.	File D00	1C018	48
	11.3.1.	Parser	Log MetaCheck48
	11.3.2.	validc	gm Log50
	11.3.3.	Output	CADLeaf51
	11.3.4.	Output	CALSView52
	11.3.5.	Output	cgm2draw/IslandDraw53
	11.3.6.	Output	Designer54
\	11.3.7.	Output	Freelance55
	11.3.8.	Output	Harvard Graphics56
	11.3.9.	Output	HiJaak Pro57
	11.3.10.	Output	IslandDraw v4.058
	11.3.11.	Output	Ventura Publisher59
	11.3.12.	Output	X-Change60

1. Introduction

1.1 Background

The Department of Defense (DoD) Air Force Continuous Acquisition and Life-cycle Support (CALS) Test Network (AFCTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The AFCTN is a DoD sponsored confederation of voluntary participants from industry and government managed by the Electronic Systems Center (ESC).

The primary objective of the AFCTN is to evaluate the effectiveness of the CALS standards for technical data interchange and to demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards; formal and informal.

Formal tests are large and comprehensive, which follow a written test plan, require specific authorization from the DoD, and may take months to prepare, execute, and report.

Informal tests are quick and short, used by the AFCTN technical staff, to broaden the testing base. They include representative samples of the many systems and applications used by AFCTN participants. They also allow the AFCTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALS initiative, and respond to the many requests for help that come from participants. ticipants take part voluntarily, benefit by receiving an evaluation of their latest implementation (interpretation) of the standards, interact with the AFCTN technical staff, gain experience using the standards, and develop increased The results of informal tests are confidence in them. reported in Quick Short Test Reports (QSTRs) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

1.2 Purpose

The purpose of the informal test, reported in this QSTR, was to analyze Sikorsky Aircraft's interpretation and use of the CALS standards, in transferring technical publication data. Sikorsky used its CALS Technical Data Interchange System to produce data, in accordance with the standards, and delivered it to the AFCTN technical staff on a 9-track magnetic tape.

2. Test Parameters

Test Plan:

AFCTB 94-028

Date of

Evaluation:

07 April 1994

Evaluator:

George Elwood

Air Force CALS Test Bed DET 2 HQ ESC/AV-2P 4027 Colonel Glenn Hwy

Suite 300

Dayton OH 45431-1672

Data

Originator:

Frank Krasnicki Sikorsky Aircraft 6900 Main Street

M/S B205A

P. O. Box 9729

Stratford CT 06497-9129

(203) 384-7068

Data

Description:

Technical Manual Test

- 1 Document Declaration file
 1 Document Type Definition (DTD)
- 3 Text/Standard Generalized Markup Language

(SGML) files

42 Computer Graphics Metafile (CGM) files

Data

Source System:

1840

HARDWARE

DEC 5000 Ultrix RISC Workstations

SOFTWARE

ArborText Adept 1840A Tape Utility and Graphics Conversion Filters

Text/SGML

HARDWARE

DEC 5000 Ultrix RISC Workstations

DEC 5500 Server

SOFTWARE

ArborText Adept SGML Editor v5.0 Parlance Document Manager v1.3 Interbase Relational Database v3.2

Xyvision Parlance Publisher

CGM

HARDWARE

Auto-trol Apollo DN3550 Graphics Workstations

Auto-trol Apollo DSP 4500 Servers

SOFTWARE

Auto-trol Tech Illustrator Plus v8.2.6

Auto-trol S5K/IGES Processor v6.0 Auto-trol S5K/CGM Converter v1.4

Auto-trol S5K/DXF AutoCad Converter v3.0

Evaluation Tools Used:

MIL-STD-1840A (TAPE)

SUN 3/280

AFCTN Tapetool v1.2.10 UNIX

XSoft CAPS/CALS v40.4

MIL-M-28001 (SGML)

HP 735

SUN SparcStation 2

ArborText ADEPT v4.2.1

PC 486/50

Exoterica XGMLNormalizer v1.2e3.2

Exoterica Validator v2.0 exl

McAfee & McAdam Sema Mark-it v2.3

Public Domain sgmls

MIL-D-28003 (CGM)

HP 735

InterCAP X-Change v7.82

SGI Indigo 2

IGES Data Analysis (IDA) CALSView

SUN SparcStation 2

ArborText cgm2draw

Carberry CADLeaf Plus v3.1

Island Software IslandDraw v3.0

Island Software IslandDraw v4.0

PC 486/50

Advanced Tecynology Center
(ATC) MetaCheck R 2.10
Software Publishing Corporation
(SPC) Harvard Graphics v3.05
Inset Systems HiJaak Pro
Lotus Freelance v2.01
Micrografx Designer v4.0
Corel Ventura Publisher

Standards Tested:

MIL-STD-1840A MIL-M-28001A MIL-D-28003

3. 1840A Analysis

3.1 External Packaging

The tape arrived at the Air Force CALS Test Bed (AFCTB) enclosed in a box in accordance with ASTM D 3951. The exterior of the box was marked with a magnetic tape warning label, as required by MIL-STD-1840A, para. 5.3.1.3.

The tape was enclosed in barrier sheet material as required by MIL-STD-1840A, para. 5.3.1.2. Inspection of the tape reel showed the label indicating the recording density, as required by MIL-STD-1840A, para. 5.3.1. Enclosed in the box was a packing list showing all files recorded on the tape.

3.2 Transmission Envelope

The 9-track tape received by the AFCTB contained MIL-STD-1840A files. The files were named per the standard conventions.

3.2.1 Tape Formats

The tape was run through the AFCTN Tapetool 1.2.10 utility. No errors were encountered while evaluating the contents of the tape labels. Portions of the Tapetool report logs are provided in Appendix A, Section 9.

The tape was read using XSoft's CAPS read1840A utility without any reported errors.

The physical structure of the tape, submitted by Sikorsky Aircraft, meets the requirements defined in CALS MIL-STD-1840A and ANSI 3.27.

3.2.2 Declaration and Header Fields

No errors were reported in the Document Declaration file and data file headers. This portion of the tape meets the requirements defined in CALS MIL-STD-1840A for CALS headers.

4. IGES Analysis

No Initial Graphics Exchange Specification (IGES) files were included in this evaluation.

5. SGML Analysis

The tape contained three SGML files; a tagged instance text file, a DTD file and a Format Output Specification Instance (FOSI) file. The AFCTB has several parsers available for evaluating SGML files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. These products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of CALS capability. All operations were performed using the default settings unless specified in the report.

The text and DTD files from this document were tested using the Exoterica XGMLNormalizer parser. During the initial parse of the DTD, the error shown below was reported.

C:\XGML\XGMLNORM.EXE -Error on line 198 in file 9428.dtd:
Invalid file specification (external identifier).
For the entity 'specchar':
The system id is "".
The public id is "-//SIKORSKY//ENTITIES SPEC ...".

This error relates to two external references that were not included on the tape, as follows:

Because these were in marked sections, the "INCLUDE" was changed to "IGNORE." With this change the DTD parsed without a reported error or warning.

Using the modified DTD, the text file parsed without any reported errors or warnings after the ArborText statements were commented out.

The text and DTD files from the tape were evaluated using a parser available in the AFCTB. The two external references noted above were changed to IGNORE. The parser then reported an error with seven duplicate declarations for graphic files as follows:

Attempt to declare general entity name 'aa3150' more than once denied.

An additional error was reported in another marked section near the end of the DTD:

<![IGNORE TEMP[using the attlist above this from the Navy dtd
<!ATTLIST xref xrefid IDREF #REQUIRED</pre>

The parser did not like IGNORE TEMP. This statement was commented out.

This parser also reported (as comments) many generic IDs that were not included in any content model. An example follows:

DTD0096: The generic ID DOCTYPE has not been used in any content model, inclusion, or as a doctype element.

The resulting compiled DTD was then used to parse the text file. Twenty-three errors and one warning were reported during this process. The errors were invalid or missing

tags. Most of these errors were reported against the <TABLE> tag:

IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '<NOTICE>'.

The error logs from these operations are included in Appendix B, Section 10 of this report.

The text and DTD files were evaluated using the Exoterica Validator exl parser. During the first parsing attempt, five errors and 58 warnings were issued. The warnings were duplicate definitions of graphics, elements not included in content models, the two unknown external reference files, and the added ArborText unique statements at the start of the text file. When the DTD and text files were modified, as noted above, 57 warnings were issued for the duplicate definitions in the graphics and the elements not included in a content model.

The text and DTD files were evaluated using McAfee & McAdam's Sema Mark-it v2.3 parser. The modified DTD and text files parsed without any reported errors or warnings.

The text and DTD files were evaluated using the Public Domain sgmls parser. Using version 1.0 of this parser and the modified files defined above, no errors or warnings were issued.

The FOSI DTD was not evaluated due to tool limitations within the AFCTB.

The text file was imported into ArborText's Adept software without a reported error. The commented areas at the top of the text file were removed before the import. Limited computer memory prevented the publishing to be completed.

According to Chris Moffett of ArborText, Inc., "This (or These) warning(s) may be due to a syntax error in the DTD."

In summary, the DTD and text files required external references, which were not included. These marked sections had to be removed in order to successfully parse the DTD. The DTD had six duplicate definitions for graphics entities. The text file had application specific information at the

start which had to be commented out in order to successfully parse the text file. The files do not meet the CALS MIL-M-28001A specification, due to the above noted problems.

6. Raster Analysis

No Raster files were included in this evaluation.

7. CGM Analysis

The tape contained 42 CGM files. The files were evaluated using ATC's MetaCheck with CALS options. This utility reported that all files meet the specification defined in MIL-D-28003. Some basic CGM entity warnings were reported in files C004, C009, C022, C024, C026, C029, C031-C035, C038, C039 and C043. The warnings were all the same, relating to a polyline with only one vertex.

Bulletin 20009: Element Class/ID: 4/1 Offset: 5190 octets Element No. 511 Warning; POLYLINE with only one distinct vertex.

The CGM files were evaluated using the beta AFCTN validcgm utility. This utility reported no errors.

The AFCTB has several tools for viewing CGM files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. Many of these products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor and indication of CALS capability. All operations were performed using the default settings.

Because of the number of files submitted, only files C009, C018 and C029 were selected for a detailed evaluation. All 42 files were viewed by at least two different software applications available within the AFCTB.

The CGM files were converted using ArborText's cgm2draw utility without a reported error. The resulting files were read into Island Software's IslandDraw v3.1, displayed and printed. No visual errors were noted in file C009 although

multiple line text did touch. File C018 displayed a large amount of text overrun. The sample label in the upper center of the image had text running outside the defined area. In file C029 the two columns of text near the bottom overlapped.

All files were read into Carberry's *CADLeaf* software and displayed. Text overrun was noted in several files. See Appendix C, Section 11 for examples from files C018 and C029.

All files were read into IDA's *CALSView*. Text overrun was noted in several files. See Appendix C, Section 11 for examples from C018 and C029.

The files were imported into the Micrografx Designer with a reported error. The error was unrecognized data in the data stream. File C009 had noted missing graphics entities. Arcs were also noted as missing. In file C018 the text did not overflow the defined areas, however, arcs were noted as missing. In file C029 the text did not overlap, yet errors were noted in the arcs.

According to Michael Harrison of Micrografx, Inc., "Micrografx is aware of the problems associated with reading these files and is working on a solution to be implemented in a future release of our product."

The files were imported into Lotus' *Freelance* and displayed. File C009 appeared to be complete. Files C018 and C029 displayed text overlap.

The files were imported into SPC's Harvard Graphics v3.05 without a reported error. File C018 and C029 displayed text overlap, and errors with some arcs.

The files were read into Inset Systems' HiJaak Pro without a reported error. The images displayed correctly on the screen in color. When printed, many entities were noted as missing. File C018 and C029 also displayed the text overlap.

The files were imported directly into Island Software's IslandDraw v4.0 without a reported error. When displayed and printed, many entities were noted as missing. Some arcs were noted as missing or misshaped. No text was displayed until color changes were made.

All files were read into InterCAP's X-Change without a reported error. Several files displayed text overlap. See Appendix C, Section 11, for examples from file C018 and C029.

The files were imported into Corel's *Ventura Publisher* without a reported error. File C009 was noted as missing arcs and lines that were misplaced. File C018 and C029 did not display the text overflow problem. However, both files displayed noticeable errors with arcs.

While the CGM files meet the CALS MIL-D-28003 specification, all software applications available in the AFCTB had problems displaying the images. Text overlap and overflow were the most common problems. Several applications had problems with arcs.

8. Conclusions and Recommendations

The tape from Sikorsky Aircraft had no reported errors in the physical structure or CALS headers and meets the requirements defined in ANSI 3.27 and CALS MIL-STD-1840A.

The SGML files do not meet the CALS MIL-M-28001A specification, due to the following problems. Both the DTD and text files had to be modified in order to successfully parse. The DTD called two external reference files which were not included on the tape. Six graphic files were redefined in the DTD.

The CGM files meet the CALS MIL-D-28003 specification. All applications in the AFCTB had various problems with the files. Most of these problems relate to text font and text overlap.

The tape does not meet the CALS MIL-STD-1840A requirements, due to the problems in the SGML set.

9. Appendix A - Tapetool Report Logs

9.1 Tape Catalog

CALS Test Network Catalog Evaluation - Version 1.2; Release 10 (C)

Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information ANSI X3.27 (1987) - File Structure and labeling of Magnetic Tapes for Information Interchange

ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Thu Apr 7 07:08:49 1994

MIL-STD-1840A File Catalog

File Set Directory: /cals/u1210/Set058

Page: 1

File Name	File Type	Record Format/ Block Length Length/Total	Selected/ Extracted
D001 D001C004 D001C005 D001C006	Document Declaration CGM CGM CGM	D/00260 02048/000001 F/00080 00800/000045 F/00080 00800/000011 F/00080 00800/000005	Extracted Extracted Extracted Extracted
	<<<< PART OF LOG FIL	LE REMOVED HERE >>>>	
D001C043 D001C044 D001C045 D001G002 D001H003 D001T001	CGM CGM CGM DTD Output Specification Text	F/00080 00800/000029 F/00080 00800/000015 F/00080 00800/000025 D/00260 02048/000017 D/00260 02048/00002 D/00260 02048/000312	Extracted Extracted Extracted Extracted Extracted Extracted

Catalog Process terminated normally.

9.2 Tape Evaluation Log

CALS Test Network Tape Evaluation - Version 1.2; Release 10 (C) Standards referenced:

ANSI X3.27 (1987) - File Structure and labeling of Magnetic Tapes for Information Interchange

ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Thu Apr 7 07:07:37 1994

ANSI Tape Import Log

Allocating tape drive /dev/rmt0...

/dev/rmt0 allocated.

VOL1CALS01 KRASNICK

Label Identifier: VOL1
Volume Identifier: CALS01
Volume Accessibility:
Owner Identifier: KRASNICK
Label Standard Version: 4

HDR1D001

00010001000100 94094 99364 000000UNIX4.2-PRODS

Label Identifier: HDR1
File Identifier: D001
File Set Identifier:
File Section Number: 0001
File Sequence Number: 0001

File Sequence Number: 0001 Generation Number: 0001 Generation Version Number: 00

Creation Date: 94094
Expiration Date: 99364
File Accessibility:
Block Count: 000000

Implementation Identifier: UNIX4.2-PRODS

<><< PART OF LOG FILE REMOVED HERE >>>>

00

EOF2D0204800260

Label Identifier: EOF2
Recording Format: D

Block Length: 02048 Record Length: 00260

Tape Import Process terminated normally.

9.3 Tape File Set Validation Log

Saving CGM Header File: D001C004_HDR Saving CGM Data File: D001C004_CGM

CALS Test Network File Set Evaluation - Version 1.2; Release 10 (C) Standards referenced: MIL-STD-1840A (1987) - Automated Interchange of Technical Information Thu Apr 7 07:08:49 1994 MIL-STD-1840A File Set Evaluation Log File Set: Set058 Found file: D001 Extracting Document Declaration Header Records... Evaluating Document Declaration Header Records... srcsys: Sikorsky Aircraft 6900 Main St.Stratford, Ct.06497-1385007 srcdocid: TM 1-1650-384 srcrelid: NONE chglvl: ORIGINAL dteisu: 19940405 dstsys: U.S.Army ATCOM dstdocid: TM 1-1650-384 dstrelid: NONE dtetrn: 19940405 dlvacc: NONE filcnt: T1,G1,H1,C42 ttlcls: UNCLASSIFIED doccls: UNCLASSIFIED doctyp: Technical Order docttl: Tail Rotor Servo Assembly Found file: D001C004 Extracting CGM Header Records... Evaluating CGM Header Records... srcdocid: TM 1-1650-384 dstdocid: TM 1-1650-384 txtfilid: W figid: 4-6 srcqph: aa3149 doccls: UNCLASSIFIED notes: NONE

<<<< PART OF LOG FILE REMOVED HERE >>>>

Found file: D001C045

Extracting CGM Header Records...
Evaluating CGM Header Records...

srcdocid: TM 1-1650-384 dstdocid: TM 1-1650-384

txtfilid: W
figid: 4-5
srcgph: aa3148

doccls: UNCLASSIFIED

notes: NONE

Saving CGM Header File: D001C045_HDR Saving CGM Data File: D001C045_CGM

Found file: D001G002

Extracting DTD Header Records...
Evaluating DTD Header Records...

srcdocid: TM 1-1650-384
dstdocid: TM 1-1650-384

notes: DTD

Saving DTD Header File: D001G002_HDR Saving DTD Data File: D001G002_DTD

Found file: D001H003

Extracting Output Specification Header Records...
Evaluating Output Specification Header Records...

srcdocid: TM 1-1650-384 dstdocid: TM 1-1650-384

notes: FOSI

Saving Output Specification Header File: D001H003_HDR Saving Output Specification Data File: D001H003_OS

Found file: D001T001

Extracting Text Header Records...
Evaluating Text Header Records...

srcdocid: TM 1-1650-384 dstdocid: TM 1-1650-384

txtfilid: W

doccls: UNCLASSIFIED

notes: SGML

```
Saving Text Header File: D001T001_HDR Saving Text Data File: D001T001_TXT
```

Evaluating numbering scheme...

No errors were encountered during numbering scheme evaluation.

Numbering scheme evaluation complete.

Checking file count...

No errors were encountered during file count verification.

File Count verification complete.

No errors were encountered in Document D001.

No errors were encountered in this File Set.

MIL-STD-1840A File Set Evaluation Complete.

9.4 Other Tape Reading Logs

```
/cals/caps/Bin/read1840A: --- Read declaration file 'D001
/cals/caps/Bin/read1840A: writing data file '9426/TM1-1650-384/aa3149.C.cgm'.
/cals/caps/Bin/read1840A: writing data file '9426/TM1-1650-384/aa3126.C.cgm'.
/cals/caps/Bin/read1840A: writing data file '9426/TM1-1650-384/aa3127.C.cgm'.
                          <<<< PART OF LOG FILE REMOVED HERE >>>>
/cals/caps/Bin/read1840A: writing data file '9426/TM1-1650-384/aa3147.C.cgm'.
/cals/caps/Bin/read1840A: writing data file '9426/TM1-1650-384/aa3148.C.cgm'.
/cals/caps/Bin/read1840A: writing data file '9426/TM1-1650-384/TM11650384.G.dtd'.
/cals/caps/Bin/read1840A: writing data file '9426/TM1-1650-384/TM11650384.H.out'.
/cals/caps/Bin/read1840A: writing data file '9426/TM1-1650-384/W.T.sgm'.
-- declaration file indicates 1 files of type T
-- declaration file indicates 1 files of type G
-- declaration file indicates 1 files of type H
-- declaration file indicates 0 files of type Q
-- declaration file indicates 0 files of type R
-- declaration file indicates 42 files of type C
-- declaration file indicates 0 files of type X
-- declaration file indicates 0 files of type P
-- declaration file indicates 0 files of type Z
```

10. Appendix B - Detailed SGML Analysis

10.1 Parser Log

10.1.1 DTD Log File - 1

SGML Document Type Definition Parser
An SGML System Conforming to
International Standard ISO 8879

```
Log file: '9428.LOG'
SDO File: 'ctndecl.sdo'
Namecase General is yes.
Namecase Entity is no.
Parsing DTD file: '9428.dtd'
Parsing DOCTYPE DMWR
DTD0143: Attempt to declare general entity name 'aa3150'
         more than once denied.
         In declaration: '<!ENTITY'.
         In declaration: '<!['.</pre>
         In declaration: '<!DOCTYPE'.</pre>
         in entity 'math'
         in line 105 in file '9428.dtd'
DTD0143: Attempt to declare general entity name 'aa3151'
         more than once denied.
         In declaration: '<!ENTITY'.
         In declaration: '<!['.
         In declaration: '<!DOCTYPE'.</pre>
         in entity 'math'
         in line 106 in file '9428.dtd'
DTD0143: Attempt to declare general entity name 'aa3152'
         more than once denied.
         In declaration: '<!ENTITY'.
         In declaration: '<!['.
         In declaration: '<!DOCTYPE'.</pre>
         in entity 'math'
         in line 107 in file '9428.dtd'
DTD0143: Attempt to declare general entity name 'aa3153'
         more than once denied.
         In declaration: '<!ENTITY'.
         In declaration: '<!['.
         In declaration: '<!DOCTYPE'.</pre>
         in entity 'math'
```

in line 108 in file '9428.dtd'

```
DTD0143: Attempt to declare general entity name 'aa3154'
         more than once denied.
         In declaration: '<!ENTITY'.
         In declaration: '<!['.</pre>
         In declaration: '<!DOCTYPE'.
         in entity 'math'
         in line 109 in file '9428.dtd'
DTD0143: Attempt to declare general entity name 'aa3155'
         more than once denied.
         In declaration: '<!ENTITY'.
         In declaration: '<!['.
         In declaration: '<!DOCTYPE'.
         in entity 'math'
         in line 110 in file '9428.dtd'
DTD0143: Attempt to declare general entity name 'aa3156'
         more than once denied.
         In declaration: '<!ENTITY'.</pre>
         In declaration: '<!['.
         In declaration: '<!DOCTYPE'.
         in entity 'math'
         in line 111 in file '9428.dtd'
DTD0157: External entity file '\SYSTEM.ENT' cannot be opened. Reference ignored.
         In declaration: '<!['.
        In declaration: '<!['.
         In declaration: '<!DOCTYPE'.
         in entity 'edit'
         in line 124 in file '9428.dtd'
DTD0153: Unknown parameter entity: 'specchar'. Reference ignored.
         In declaration: '<!['.</pre>
         In declaration: '<!['.
         In declaration: '<!DOCTYPE'.</pre>
         in entity 'edit'
         in line 124 in file '9428.dtd'
DTD0137: Incorrect token '%.'. Parser Ignoring Input Up To Next MDO.
         In declaration: '<!['.</pre>
         In declaration: '<!['.</pre>
         In declaration: '<!DOCTYPE'.
          in entity 'edit'
          in line 125 in file '9428.dtd'
DTD0221: An unknown keyword was used in a marked section declaration. Only
         TEMP, IGNORE, and INCLUDE are allowed in a Document Type Definition.
          CDATA and RCDATA are allowed in a document instance.
          In declaration: '<!['.</pre>
          In declaration: '<!['.
          In declaration: '<!['.</pre>
          In declaration: '<!DOCTYPE'.</pre>
          in entity 'publish'
          in line 130 in file '9428.dtd'
```

```
DTD0137: Incorrect token 'TEMP'. Parser Ignoring Input Up To Next MDO.
         In declaration: '<!['.</pre>
         In declaration: '<!['.
         In declaration: '<!['.
         In declaration: '<!['.
         In declaration: '<!DOCTYPE'.
         in entity 'text'
         in line 647 in file '9428.dtd'
DTD0221: An unknown keyword was used in a marked section declaration. Only
         TEMP, IGNORE, and INCLUDE are allowed in a Document Type Definition.
         CDATA and RCDATA are allowed in a document instance.
         In declaration: '<!['.
         In declaration: '<!['.</pre>
         In declaration: '<!['.</pre>
         In declaration: '<!['.
         In declaration: '<!DOCTYPE'.
         in entity 'text'
         in line 651 in file '9428.dtd'
DTD0096: The generic ID DOCTYPE has not been used in any content
         model, inclusion, or as a doctype element.
DTD0096: The generic ID PRTITLE has not been used in any content
         model, inclusion, or as a doctype element.
DTD0096: The generic ID HOWTOUSE has not been used in any content
         model, inclusion, or as a doctype element.
DTD0096: The generic ID BODY has not been used in any content
         model, inclusion, or as a doctype element.
DTD0096: The generic ID SECTINDEX has not been used in any content
         model, inclusion, or as a doctype element.
DTD0096: The generic ID PERSONNEL has not been used in any content
         model, inclusion, or as a doctype element.
DTD0096: The generic ID MATERIALINDEX has not been used in any content
         model, inclusion, or as a doctype element.
DTD0096: The generic ID REFINDEX has not been used in any content
         model, inclusion, or as a doctype element.
DTD0096: The generic ID EQUIPCON has not been used in any content
         model, inclusion, or as a doctype element.
DTD0096: The generic ID ENVIRONMENT has not been used in any content
         model, inclusion, or as a doctype element.
DTD0096: The generic ID APPLICABIL has not been used in any content
         model, inclusion, or as a doctype element.
DTD0096: The generic ID TOOLS has not been used in any content
         model, inclusion, or as a doctype element.
DTD0096: The generic ID SPECIALINST has not been used in any content
         model, inclusion, or as a doctype element.
DTD0096: The generic ID GENSAFINST has not been used in any content
         model, inclusion, or as a doctype element.
DTD0096: The generic ID PARTNAME has not been used in any content
         model, inclusion, or as a doctype element.
```

DTD0096: The generic ID APPMAC has not been used in any content model, inclusion, or as a doctype element.

DTD0096: The generic ID APPINVENT has not been used in any content model, inclusion, or as a doctype element.

DTD0096: The generic ID EXPENDINTRO has not been used in any content model, inclusion, or as a doctype element.

DTD0096: The generic ID SUBFIG has not been used in any content model, inclusion, or as a doctype element.

DTD0096: The generic ID PARAINDEX has not been used in any content model, inclusion, or as a doctype element.

DTD0096: The generic ID SECT has not been used in any content model, inclusion, or as a doctype element.

DTD0096: The generic ID INSPECTOR has not been used in any content model, inclusion, or as a doctype element.

DTD0096: The generic ID DATE has not been used in any content model, inclusion, or as a doctype element.

DTD does not conform to ISO 8879 standard due to these errors:

Syntax error count: 2
Entity error count: 2

Uncorrectable syntax error count: 2 .DTO file not created due to parsing errors.

Program status code: 5.

10.1.2 DTD Log File - 2

SGML Document Type Definition Parser An SGML System Conforming to International Standard ISO 8879 Standard Generalized Markup Language

Log file: '9428.LOG' SDO File: 'ctndecl.sdo' Namecase General is yes. Namecase Entity is no. Parsing DTD file: '9428.dtd' Parsing DOCTYPE DMWR DTD0143: Attempt to declare general entity name 'aa3150' more than once denied. In declaration: '<!ENTITY'.</pre> In declaration: '<!['. In declaration: '<!DOCTYPE'. in entity 'math' in line 105 in file '9428.dtd' DTD0143: Attempt to declare general entity name 'aa3151' more than once denied. In declaration: '<!ENTITY'.</pre> In declaration: '<!['. In declaration: '<!DOCTYPE'. in entity 'math' in line 106 in file '9428.dtd' DTD0143: Attempt to declare general entity name 'aa3152' more than once denied. In declaration: '<!ENTITY'.</pre> In declaration: '<!['. In declaration: '<!DOCTYPE'.</pre> in entity 'math' in line 107 in file '9428.dtd' DTD0143: Attempt to declare general entity name 'aa3153' more than once denied. In declaration: '<!ENTITY'.</pre> In declaration: '<!['. In declaration: '<!DOCTYPE'.</pre> in entity 'math' in line 108 in file '9428.dtd' DTD0143: Attempt to declare general entity name 'aa3154' more than once denied. In declaration: '<!ENTITY'.</pre> In declaration: '<!['.

In declaration: '<!DOCTYPE'.

in entity 'math'

in line 109 in file '9428.dtd'

DTD0143: Attempt to declare general entity name 'aa3155'

more than once denied.

In declaration: '<!ENTITY'.</pre>

In declaration: '<!['.</pre>

In declaration: '<!DOCTYPE'.</pre>

in entity 'math'

in line 110 in file '9428.dtd'

DTD0143: Attempt to declare general entity name 'aa3156'

more than once denied.

In declaration: '<!ENTITY'.</pre>

In declaration: '<!['.

In declaration: '<!DOCTYPE'.

in entity 'math'

in line 111 in file '9428.dtd'

DTD0096: The generic ID DOCTYPE has not been used in any content

model, inclusion, or as a doctype element.

<<<< PART OF LOG FILE REMOVED HERE >>>>

DTD0096: The generic ID DATE has not been used in any content

model, inclusion, or as a doctype element.

This DTD conforms to the ISO 8879 standard

DTO file '9428.DTO' created

closing statistics:

Capacity points: 32584 Bytes of DTO file string space: 10061

SGML descriptor blocks: 3639

Document Type Definition is compliant and parsed normally.

Program status code: 0.

10.1.3 Text Log File

```
*** SGML Instance Parser Log File ***
IPA0108:
Source Document File: 'i:\94028\t001.txt'.
                       '9428.jbf'.
Job File:
DTD File:
SGML Declaration File: ''.
Reading File '9428.jbf', File Type 'JOB FILE'.
     Concrete Syntax Settings In Effect For This Parse:
         NAMECASE GENERAL: YES.
         NAMECASE ENTITY: NO.
                           32.
         NAMELEN:
                           YES.
         SHORTTAG:
Closed '9428.jbf', File Type 'JOB FILE'.
Reading File 'i:\94028\t001.txt', File Type 'DIRECT INPUT FILE'.
IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '<NOTICE>'.
    Error On Line
                    12.
    State: 'DMWR.PARTIALDOC.MODULE.FRONT.IDINFO'.
   --> Scanned Up To Line 100 In i:\94028\t001.txt.
   --> Scanned Up To Line 200 In i:\94028\t001.txt.
IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</TABLE>'.
    Error On Line 240.
    State: 'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARAO.SUBPARA1.PARA.TABLE'.
   --> Scanned Up To Line 300 In i:\94028\t001.txt.
IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</TABLE>'.
    Error On Line 352.
    State: 'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARAO.TABLE'.
   --> Scanned Up To Line 400 In i:\94028\t001.txt.
IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</TABLE>'.
    Error On Line 411.
    State: 'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARAO.TABLE'.
IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</TABLE>'.
    Error On Line 481.
    State: 'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARAO.TABLE'.
IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</TABLE>'.
    Error On Line 497.
    State: 'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARAO.TABLE'.
   --> Scanned Up To Line 500 In i:\94028\t001.txt.
IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</TABCOL>'.
    Error On Line 515.
    State: 'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARAO.TABCOL'.
   --> Scanned Up To Line 600 In i:\94028\t001.txt.
                          <><< PART OF LOG FILE REMOVED HERE >>>>
```

Error On Line 4150.

--> Scanned Up To Line 1100 In i:\94028\t001.txt. IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</IPBFIG>'. Error On Line 1104. State: 'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARAO.SUBPARA1.IPBFIG'. --> Scanned Up To Line 1200 In i:\94028\t001.txt. <<<< PART OF LOG FILE REMOVED HERE >>>> --> Scanned Up To Line 2800 In i:\94028\t001.txt. IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</TABCOL>'. Error On Line 2899. State: 'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARAO.STEP1.STEP2.PARA.TABCOL'. --> Scanned Up To Line 2900 In i:\94028\t001.txt. --> Scanned Up To Line 3000 In i:\94028\t001.txt. IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</TABLE>'. Error On Line 3029. State: 'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARAO.STEP1.PARA.TABLE'. --> Scanned Up To Line 3100 In i:\94028\t001.txt. --> Scanned Up To Line 3200 In i:\94028\t001.txt. IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</TABLE>'. Error On Line 3286. State: 'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARA0.SUBPARA1.PARA.TABLE'. --> Scanned Up To Line 3300 In i:\94028\t001.txt. IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</TABLE>'. Error On Line 3398. State: 'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARAO.TABLE'. --> Scanned Up To Line 3400 In i:\94028\t001.txt. IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</TABLE>'. Error On Line 3457. State: 'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARAO.TABLE'. --> Scanned Up To Line 3500 In i:\94028\t001.txt. IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</TABLE>'. Error On Line 3527. State: 'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARAO.TABLE'. IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</TABLE>'. Error On Line 3543. State: 'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARAO.TABLE'. IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</TABCOL>'. Error On Line 3561. State: 'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARAO.TABCOL'. --> Scanned Up To Line 3600 In i:\94028\t001.txt. <><< PART OF LOG FILE REMOVED HERE >>>> --> Scanned Up To Line 4100 In i:\94028\t001.txt. IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</IPBFIG>'.

State: 'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARAO.SUBPARA1.IPBFIG'.

--> Scanned Up To Line 4200 In i:\94028\t001.txt.

<><< PART OF LOG FILE REMOVED HERE >>>>

--> Scanned Up To Line 5900 In i:\94028\t001.txt.

IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</TABCOL>'.

Error On Line 5945.

State: 'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARAO.STEP1.STEP2.PARA.TABCOL'.

--> Scanned Up To Line 6000 In i:\94028\t001.txt.

IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</TABLE>'.

Error On Line 6075.

State: 'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARAO.STEP1.PARA.TABLE'.

--> Scanned Up To Line 6100 In i:\94028\t001.txt.

<<<< PART OF LOG FILE REMOVED HERE >>>>

--> Scanned Up To Line 6700 In i:\94028\t001.txt.

IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</TABCOL>'.

Error On Line 6782.

State:

'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARAO.SUBPARA1.STEP1.PARA.TABCOL' .

- --> Scanned Up To Line 6800 In i:\94028\t001.txt.
- --> Scanned Up To Line 6900 In i:\94028\t001.txt.
- --> Scanned Up To Line 7000 In i:\94028\t001.txt.
- --> Scanned Up To Line 7100 In i:\94028\t001.txt.
- --> Scanned Up To Line 7200 In i:\94028\t001.txt.

IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</TABCOL>'.

Error On Line 7279.

State:

'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARAO.SUBPARA1.STEP1.STEP2.PARA.T ABCOL'.

- --> Scanned Up To Line 7300 In i:\94028\t001.txt.
- --> Scanned Up To Line 7400 In i:\94028\t001.txt.

IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</TABLE>'.

Error On Line 7421.

State: 'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARAO.SUBPARA1.STEP1.PARA.TABLE'.

--> Scanned Up To Line 7500 In i:\94028\t001.txt.

IPA0020: Invalid Or Missing Tag. Last Tag Encountered: '</TABLE>'.

Error On Line 7596.

State: 'DMWR.PARTIALDOC.MODULE.CHAPTER.SECTION.PARAO.TABLE'.

- --> Scanned Up To Line 7600 In i:\94028\t001.txt.
- --> Scanned Up To Line 7700 In i:\94028\t001.txt.

IPA0027: Additional Text Follows Logical End Of Source Document.

Error On Line 7757.

State: ''.

Document Parsed With 23 Error(s) And 1 Warning(s).

10.2 Exoterica XGMLNormalizer Parser

C:\XGML\XGMLNORM.EXE -Error on line 198 in file 9428.dtd:
Invalid file specification (external identifier).
For the entity 'specchar':
The system id is "".
The public id is "-//SIKORSKY//ENTITIES SPEC ...".

10.3 Sema Mark-it Log

No reported errors.

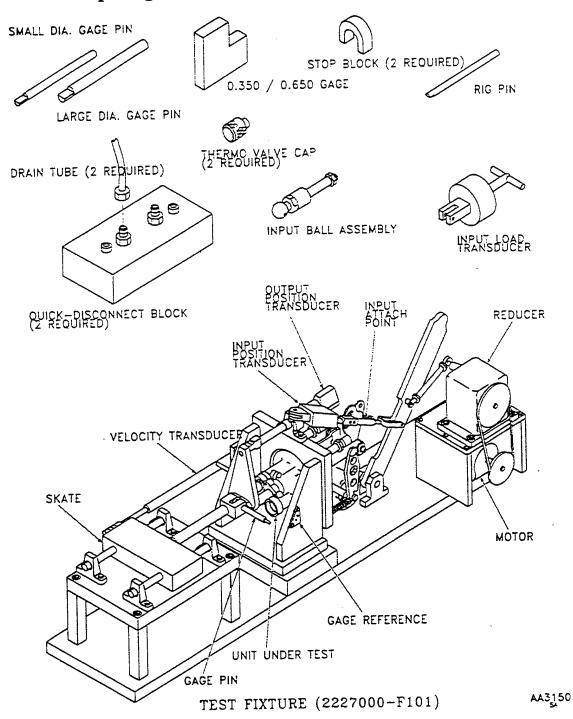
10.4 Public Domain sgmls Log

No reported errors.

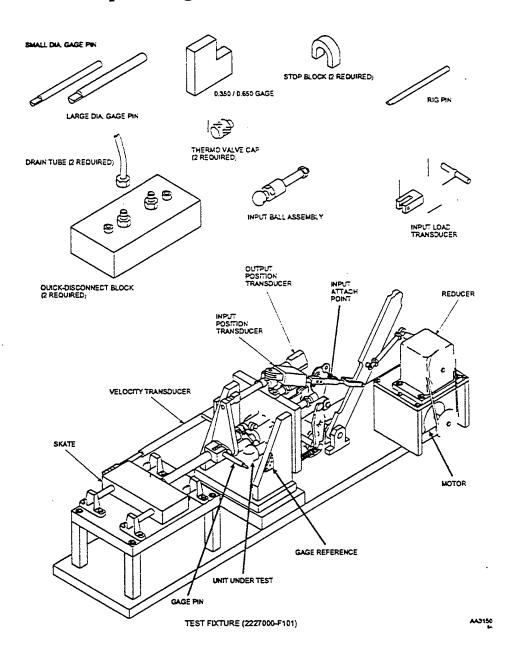
11. Appendix C - Detailed CGM Analysis

11.1 File D001C009

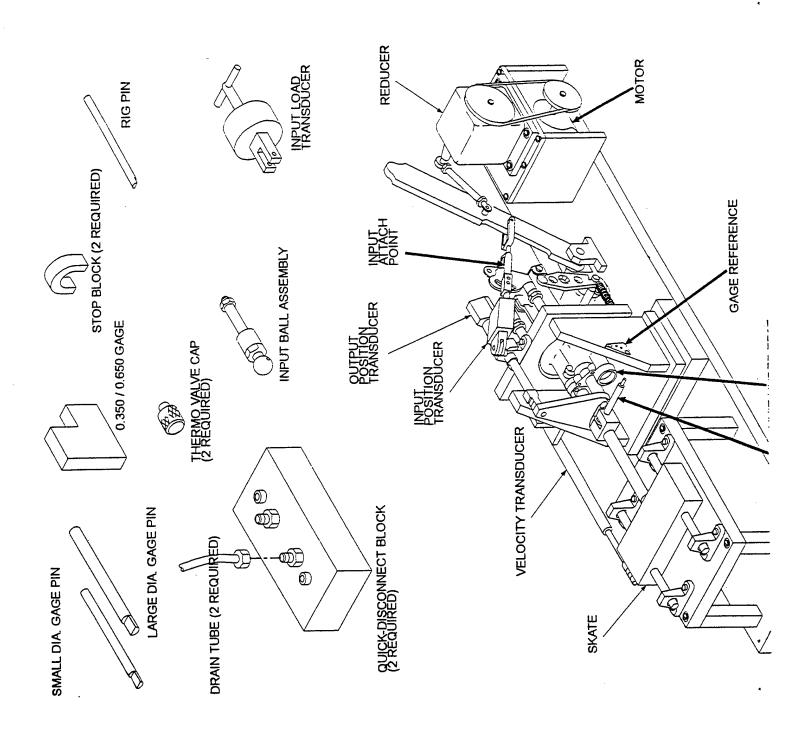
11.1.1 Output cgm2draw/IslandDraw



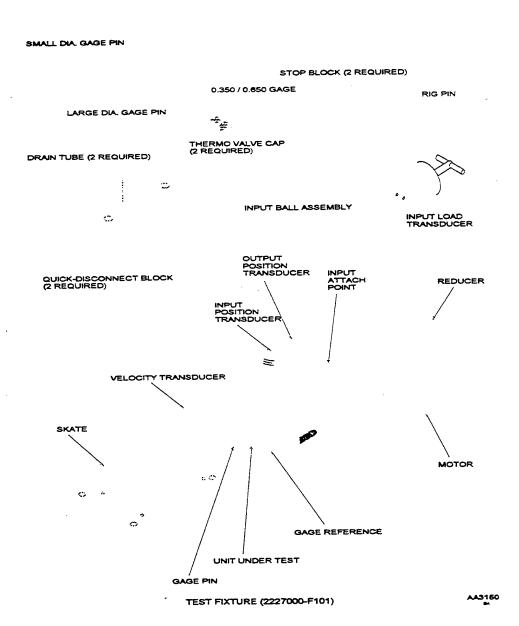
11.1.2 Output Designer



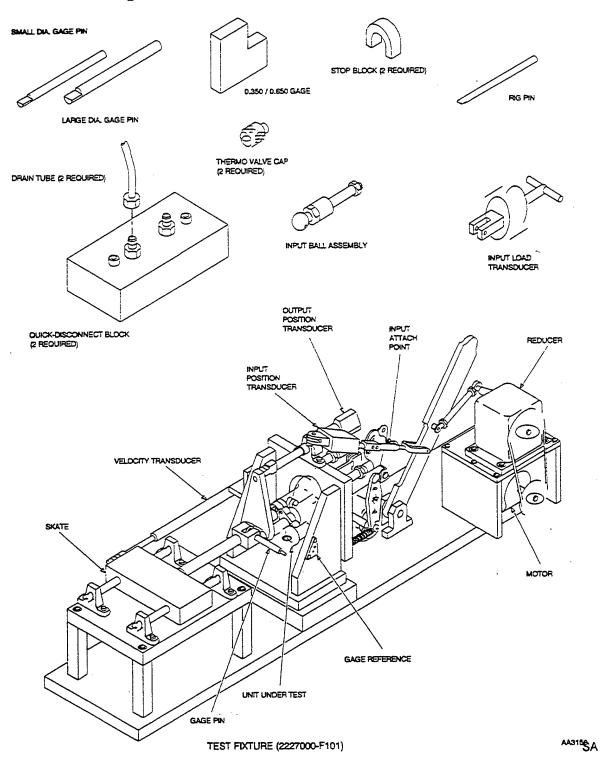
11.1.3 Output Freelance



11.1.4 Output HiJaak Pro



11.1.5 Output Ventura Publisher



11.2 File D001C018

11.2.1 Parser Log MetaCheck

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer Copyright 1988-91 CGM Technology Software Execution Date: 04/07/94 Time: 10:06:39 Metafile Examined : i:\94028\c018.cgm Pictures Examined : All Elements Examined : All Bytes Examined : All Tracing not selected. ======= CGM Conformance Violation Report ========= No Errors Detected ======= CALS CGM Profile (MIL-D-28003) Report ======== No profile discrepancies detected. ========= Conformance Summary Report ========== MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer Copyright 1988-91 CGM Technology Software Execution Date: 04/07/94 Time: 10:06:41 Name of CGM under test: i:\94028\c018.cgm Encoding : Binary Pictures Examined : All Elements Examined : All Bytes Examined : All BEGIN METAFILE string : "aa3079" METAFILE DESCRIPTION : "AUTO-TROL/REL-1.0 MIL-D-28003/BASIC-1"

Picture 1 starts at octet offset 154; string contains: "aa3079"

Conformance Summary : This file conforms to the CGM specification.

This file meets the CALS CGM Profile (MIL-D-28003).

Summary of Testing Performed and Errors Found:

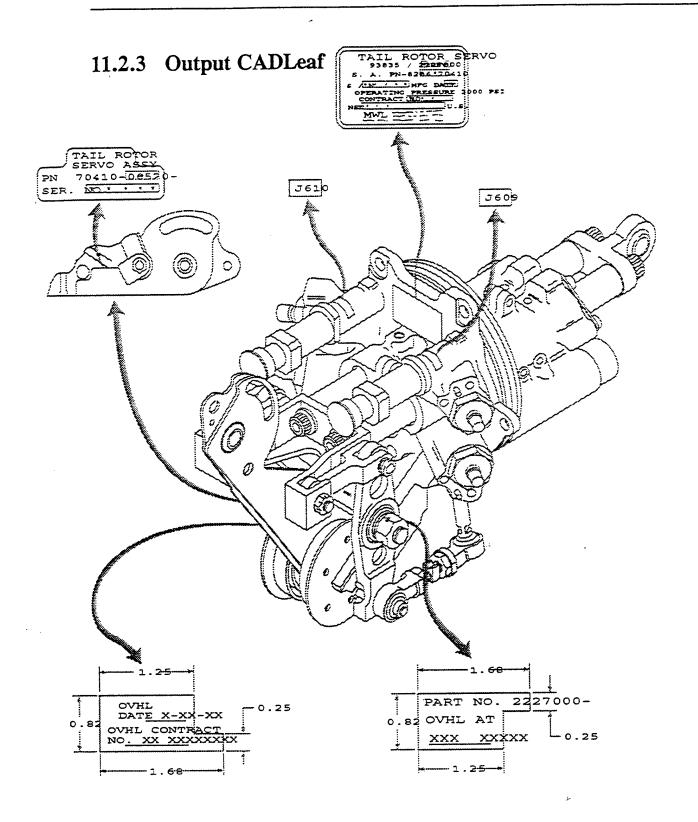
1 Pictures Tested 1720 Elements Tested 52802 Octets Tested

No Errors Were Detected |

======== End of Conformance Report ==========

11.2.2 validcgm Log

Analysis for file c018.cgm using table table (0, 1) occurred 1 time (0, 2) occurred 1 time (0, 3) occurred 1 time (0, 4) occurred 1 time (0, 5) occurred 1 time (1, 1) occurred 1 time (1, 2) occurred 1 time (1, 5) occurred 1 time (1, 7) occurred 1 time (1, 8) occurred 1 time (1, 9) occurred 1 time (1, 11) occurred 1 time (1, 13) occurred 1 time (2, 1) occurred 1 time (2, 3) occurred 1 time (2, 4) occurred 1 time (2, 5) occurred 1 time (2, 6) occurred 1 time (2, 7) occurred 1 time (4, 1) occurred 1328 times (4, 4) occurred 36 times (4, 7) occurred 60 times (4, 15) occurred 4 times (4, 17) occurred 7 times (4, 18) occurred 16 times (5, 3) occurred 25 times (5, 4) occurred 17 times (5, 10) occurred 3 times (5, 13) occurred 2 times (5, 15) occurred 11 times (5, 16) occurred 1 time (5, 18) occurred 1 time (5, 22) occurred 6 times (5, 23) occurred 11 times (5, 28) occurred 6 times (5, 29) occurred 11 times (5, 30) occurred 121 times (5, 34) occurred 35 times



NOTE

ALL DIMENSIONS ARE IN INCHES.

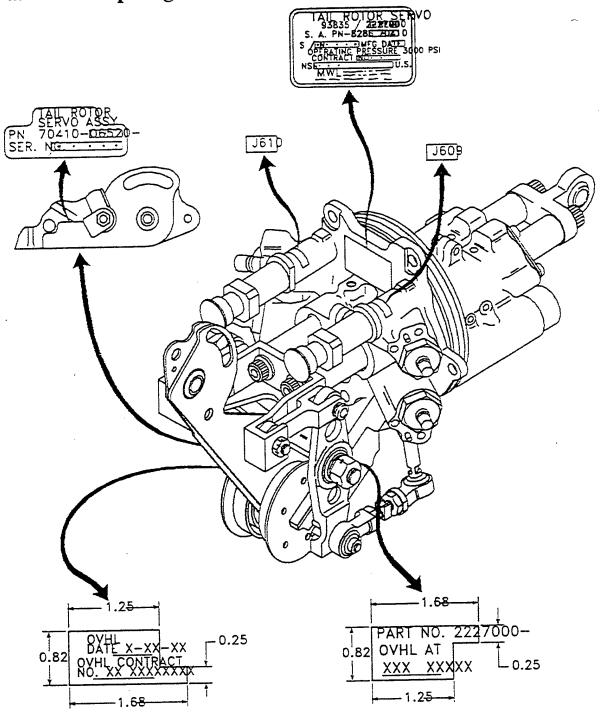
0 EAA

11.2.4 Output CALSView

TAIL ROTOR SERVO 93835 / 22270REV S. A. PN-8286 70410 S / N · · · MFG DATE OPERATING PRESSURE 3000 PS CONTRACT NO · NSN · · · · U.S. MWL



11.2.5 Output cgm2draw/IslandDraw

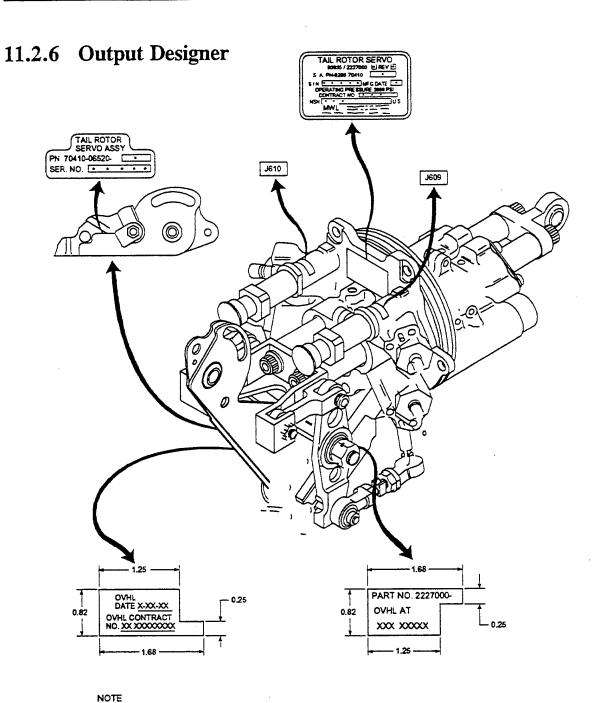


NOTE ALL DIMENSIONS ARE IN INCHES.

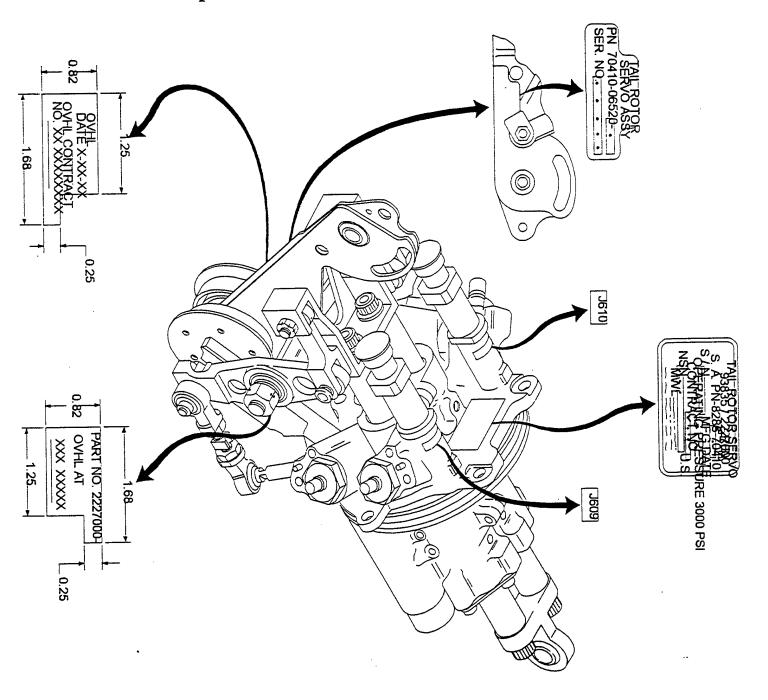
AA3079

AA3079

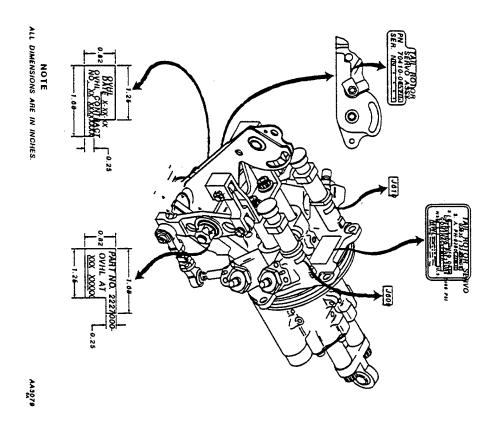
ALL DIMENSIONS ARE IN INCHES.



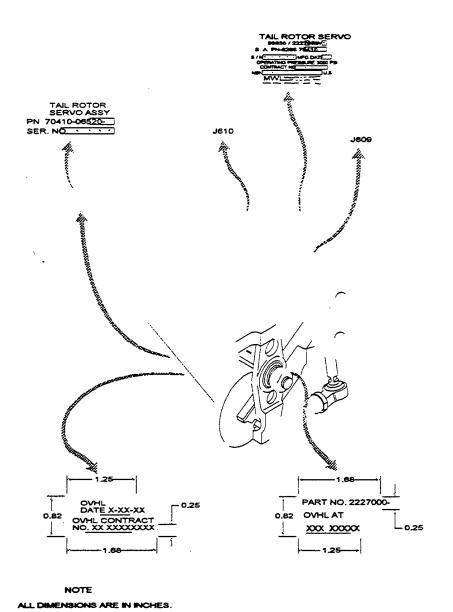
11.2.7 Output Freelance



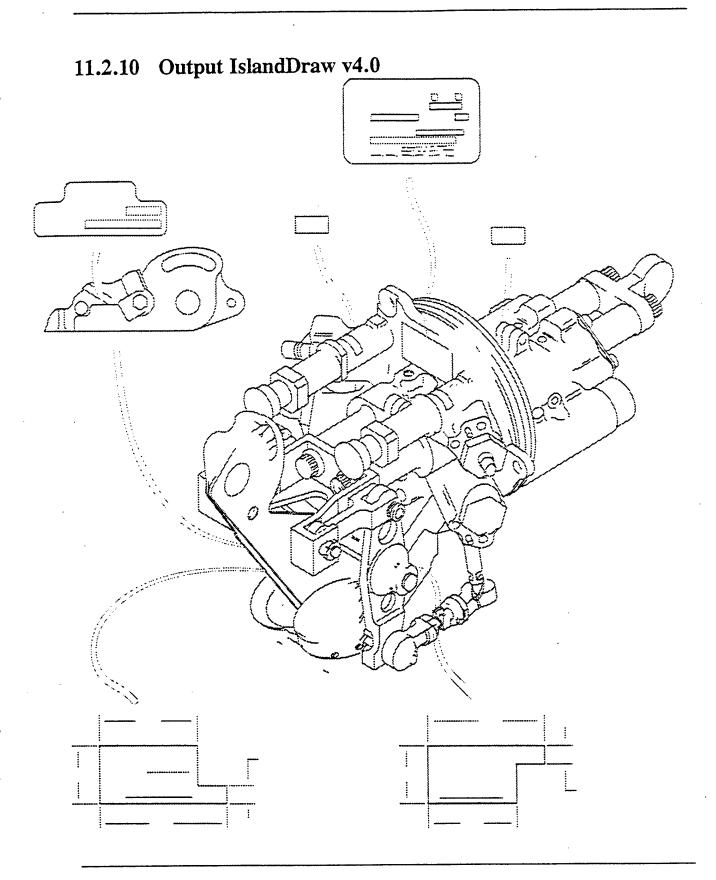
11.2.8 Output Harvard Graphics



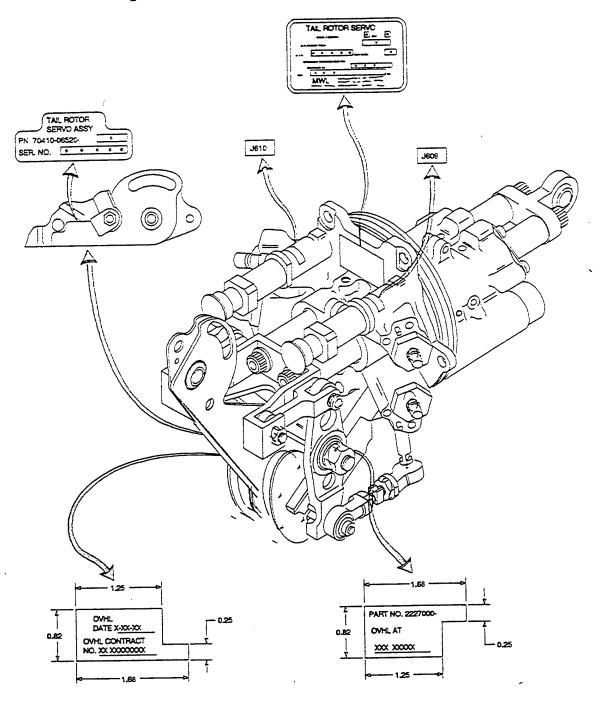
11.2.9 Output HiJaak Pro



44



11.2.11 Output Ventura Publisher

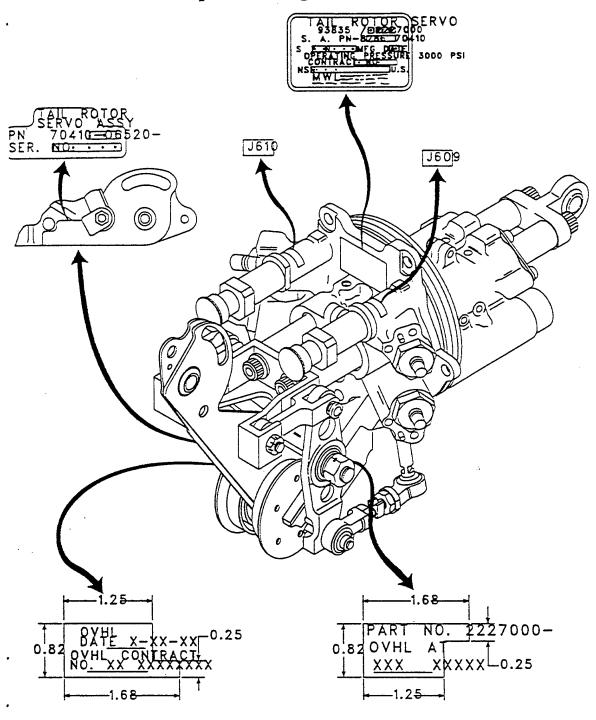


NOTE

ALL DIMENSIONS ARE IN INCHES.

AA3079

11.2.12 Output XChange



NOTE
LL DIMENSIONS ARE IN INCHES.

AA307

11.3 File D001C018

11.3.1 Parser Log MetaCheck

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer Copyright 1988-91 CGM Technology Software

Execution Date: 04/07/94 Time: 10:06:49

Metafile Examined : i:\94028\c029.cgm

Pictures Examined : All Elements Examined : All Bytes Examined : All

Tracing not selected.

======= CGM Conformance Violation Report =========

Bulletin 20009: Element Class/ID: 4/1 Offset: 5190 octets Element No. 511 Warning; POLYLINE with only one distinct vertex.

Bulletin 20009: Element Class/ID: 4/1 Offset: 7240 octets Element No. 722 Warning; POLYLINE with only one distinct vertex.

Bulletin 20009: Element Class/ID: 4/1 Offset: 7260 octets Element No. 724 Warning; POLYLINE with only one distinct vertex.

Bulletin 20009: Element Class/ID: 4/1 Offset: 7660 octets Element No. 764 Warning; POLYLINE with only one distinct vertex.

Bulletin 20009: Element Class/ID: 4/1 Offset: 7680 octets Element No. 766 Warning; POLYLINE with only one distinct vertex.

Bulletin 20009: Element Class/ID: 4/1 Offset: 7700 octets Element No. 768 Warning; POLYLINE with only one distinct vertex.

Bulletin 20009: Element Class/ID: 4/1 Offset: 7720 octets Element No. 770 Warning; POLYLINE with only one distinct vertex.

Bulletin 20009: Element Class/ID: 4/1 Offset: 7740 octets Element No. 772 Warning; POLYLINE with only one distinct vertex.

======= CALS CGM Profile (MIL-D-28003) Report ========

No profile discrepancies detected.

========= Conformance Summary Report ============

MetaCheck Version 2.05 -- CGM/MIL-D-28003 Conformance Analyzer

Copyright 1988-91 CGM Technology Software Execution Date: 04/07/94 Time: 10:06:50

Name of CGM under test: i:\94028\c029.cgm

Encoding : Binary

Pictures Examined : All Elements Examined : All Bytes Examined : All

BEGIN METAFILE string : "aa3139"

METAFILE DESCRIPTION : "AUTO-TROL/REL-1.0 MIL-D-28003/BASIC-1"

Picture 1 starts at octet offset 154; string contains: "aa3139"

Conformance Summary: This file conforms to the CGM specification.

This file meets the CALS CGM Profile (MIL-D-28003).

Summary of Testing Performed and Errors Found:

1 Pictures Tested 1446 Elements Tested 16512 Octets Tested

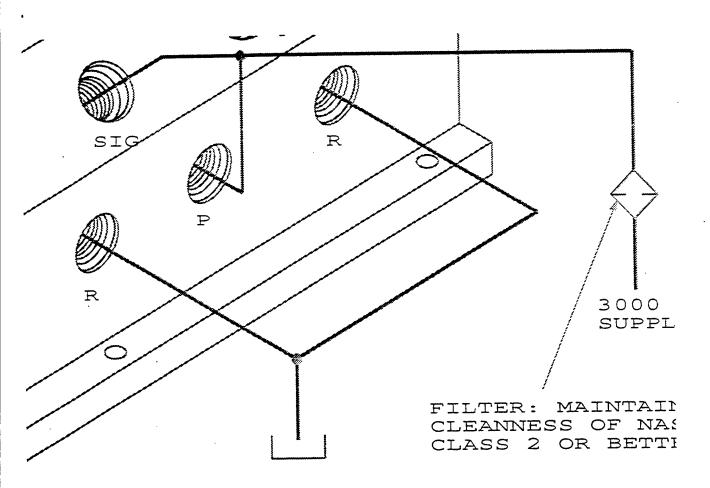
0	Illegal CGM Elements	1000	-	1999
0	Incorrect CGM Element Lengths	2000	-	2999
0	CGM State Errors	3000	-	3499
0	Required CGM Elements Missing or Wrong	4000	-	4499
0	CGM Parameter Values Out of Range	6000	-	6499
0	CGM Structure Errors	7000	-	7499
0	*** CGM Errors Found (total)	***		
0	Profile State Errors	3500	-	3999
0	Illegal Profile Elements	4500	-	4999
0	Profile Parameter Values Out of Range	6500	-	6999
0	Profile Data Limits Exceeded	8500	-	8999
0	Other Profile Constraints Violated	9500	-	9999
0	*** Profile Violations Found (total)	***		
8	Warnings (Advisory Remarks)	20000	-	20999

1 distinct errors and warnings were reported.

11.3.2 validcgm Log

Analysis for file c029.cgm using table table (0, 1) occurred 1 time (0, 2) occurred 1 time (0, 3) occurred 1 time (0, 4) occurred 1 time (0, 5) occurred 1 time (1, 1) occurred 1 time (1, 2) occurred 1 time (1, 5) occurred 1 time (1, 7) occurred 1 time (1, 8) occurred 1 time (1, 9) occurred 1 time (1, 11) occurred 1 time (1, 13) occurred 1 time (2, 1) occurred 1 time (2, 3) occurred 1 time (2, 4) occurred 1 time (2, 5) occurred 1 time (2, 6) occurred 1 time (2, 7) occurred 1 time (4, 1) occurred 1016 times (4, 4) occurred 54 times (4, 7) occurred 43 times (4, 12) occurred 7 times (4, 15) occurred 10 times (4, 17) occurred 14 times (4, 18) occurred 21 times (5, 3) occurred 32 times (5, 4) occurred 34 times (5, 10) occurred 5 times (5, 13) occurred 4 times (5, 15) occurred 9 times (5, 16) occurred 1 time (5, 18) occurred 1 time (5, 22) occurred 12 times (5, 23) occurred 18 times (5, 28) occurred 12 times (5, 29) occurred 12 times (5, 30) occurred 87 times (5, 34) occurred 35 times

11.3.3 Output CADLeaf



LEGEND

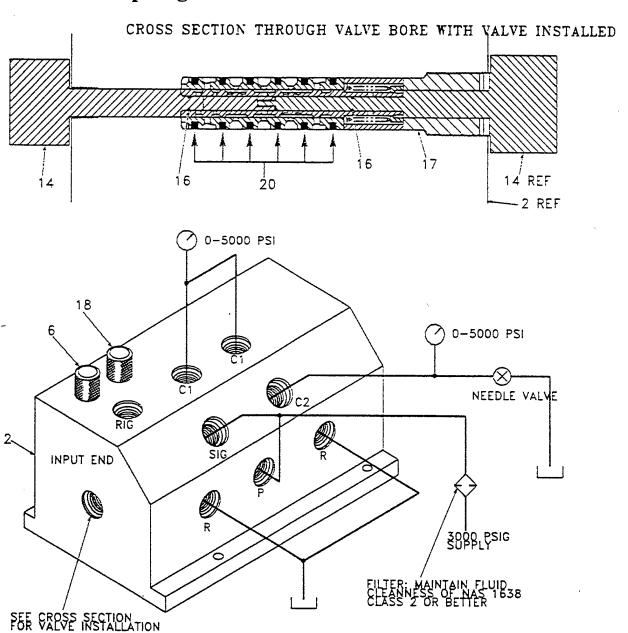
- 2 2227000F1 (T4E-SZT BLOCK
- 6 2227000F1R4G4PIN
- 14 2227000F1 DUMMY PLUNGER
- 16 MS28775-0 PACKING
- 17 2227000F1 SPACER
- 18 2227000F1R4G18IN
- 20 2227040-TEPECIAL PREFORMED PACKING

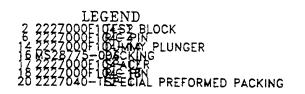
11.3.4 Output CALSView

CLEANNESS OF N. CLASS 2 OR BET

LEGEND
2 2227000E104FEST BLOCK
6 2227000E104FEST BLOCK
14 2227000E104FEST BLOCK
14 2227000F104FEMMY PLUNGER
16 MS28775-006 ACKING
17 2227000E104FIG PIN
20 2227040-TF2SPECIAL PREFORMED PAC

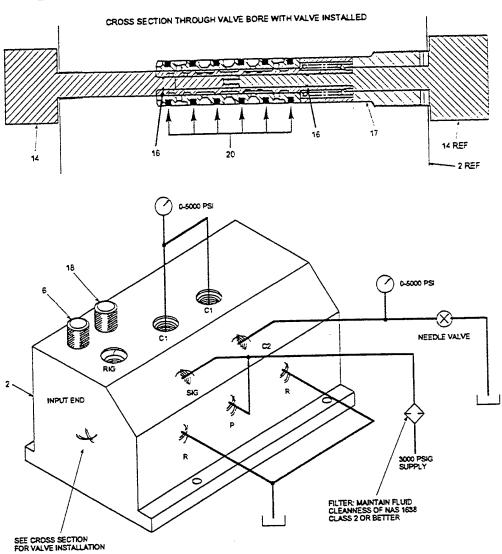
11.3.5 Output cgm2draw/IslandDraw





AA3139

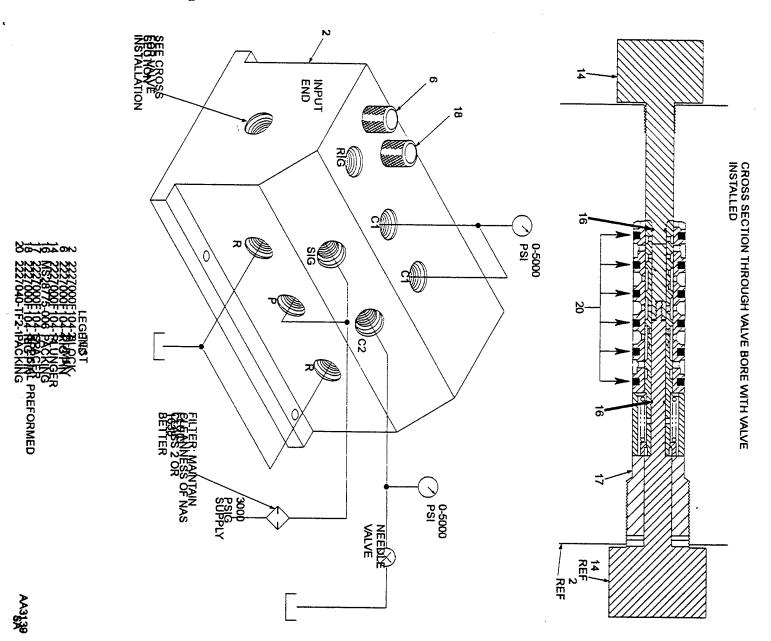
11.3.6 Output Designer



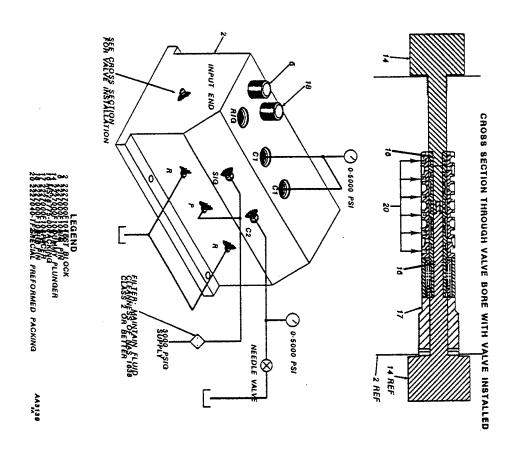
LEGEND

2 2227000F104-2 TEST BLOCK
6 2227000F1044 RIG PIN
14 2227000F104-14 DVMMY PLUNGER
16 MS28775-006 PACKING
17 2227000F104-18 RIG PIN
20 2227040-TF2-1 SPECIAL PREFORMED PACKING

11.3.7 Output Freelance



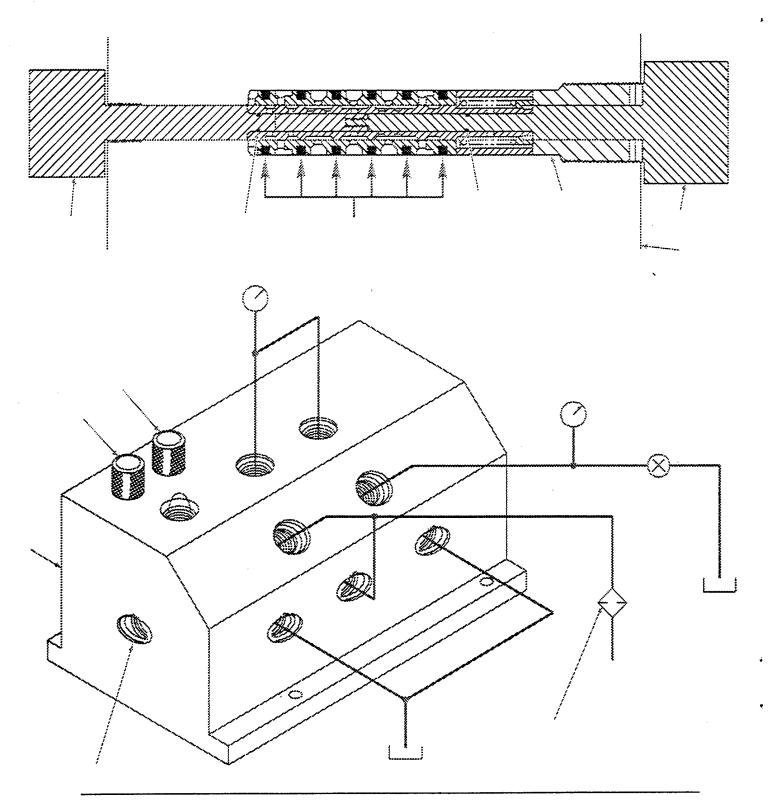
11.3.8 Output Harvard Graphics



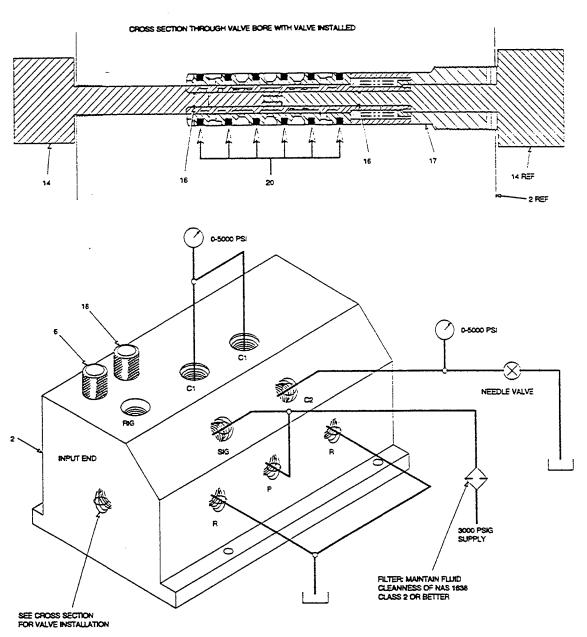
11.3.9 Output HiJaak Pro

CROSS SECTION THROUGH VALVE BORE WITH VALVE INSTALLED 16 **14 REF** 16 20 -2 REF 0-5000 PSI 0-5000 PSI NEEDLE VALVE SIG INPUT END 3000 PSIG SUPPLY FILTER: MAINTAIN FLUID CLEANNESS OF NAS 1638 CLASS 2 OR BETTER SEE CROSS SECTION FOR VALVE INSTALLATION LEGEND 2 2227000F10472ST 8LOCK 6 2227000F1049IG PIN 14 2227000F1049IAMMY PLUNGER 16 MS28775-00PACKING 17 2227000F1048FRCER 18 2227000F1048FRCER 20 2227040-TF248FECIAL PREFORMED PACKING

11.3.10 Output IslandDraw v4.0



11.3.11 Output Ventura Publisher



LEGEND

2227000F104-2 2227000F104-4 2227000F104-14 MS28775-006 2227000F104-17 2227000F104-18 2227040-TF2-1 TEST BLOCK
RIG PIN
DUMMY PLUNGER
PACIONG
SPACER
RIG PIN
SPECIAL PREFORMED PACKING

AA3139

11.3.12 Output X-Change

